

Unit Project: The Package Design Contest

Due Date: _____

The Worldwide Sporting Company wants a new set of package designs for their table-tennis balls. Your task is to design two different packages for these table-tennis balls.

*See pages 76-77 in your *Filling and Wrapping* book for detailed instructions.

Part 1: Design Two Nets

- _____/10 Make nets for two different packages for table-tennis balls on grid paper. You may leave your designs as nets (don't actually tape them together). The table-tennis balls are 3.8 cm in diameter. Please write the dimensions of each net on the net itself.

Part 2: Report

- _____/5 Describe the shape or shapes of the packages you designed, include the dimensions of the packages, and explain why you selected these shapes and sizes.
- _____/5 Calculate how much each of your package designs will cost to construct. The packaging material costs \$0.005 per square centimeter. SHOW YOUR WORK!
- _____/5 Explain how you have addressed the Worldwide Sporting Company's concerns: reasonable costs, appealing to customers, stack easily, and look good on store shelves.

Neatness and creativity are valued and expected!

TOTAL: ____/25

Extra Credit: 3 Points

The packaging material you choose must be compatible with the stamping machine WSC uses. The stamping machine only accepts material in sheets 80 cm by 100 cm.

- Show how you would arrange your nets on the sheet to minimize waste material.
- Recalculate the cost of the packaging materials taking into consideration waste.
- Calculate the percentage of waste material.